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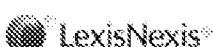
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patno=5693343

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Pat. No. 5693343 (Class 436)

Pages: 1

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242960 / 261 5693343 December 2, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5693343

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December 2, 1997

Microparticle carriers of maximal uptake capacity by both M cells and non-M cells

REISSUE: November 30, 1999 - Reissue Application filed Ex. Sp. 1814; Re. S.N. 09/451,321 (C.G. February 8, 2000)

INVENTOR: Reid, Robert H. - Kensington, Maryland, United States (US); van Hamont, John E. - Fort Meade, Maryland, United States (US); Brown, William R. - Denver, Colorado, United States (US); Boedeker, Egar C. - Chevy Chase, Maryland, United States (US); Thies, Curt - Bellview, Missouri, United States (US)

APPL-NO: 242960 (68)

FILED-DATE: May 16, 1994

GRANTED-DATE: December 2, 1997

ASSIGNEE-PRE-ISSUE: September 1, 1994 - ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS), UNITED STATES OF AMERICA, THE, AS REPRESENTED BY THE SECRETARY OF THE ARMY WASHINGTON, D.C. 20310, Reel and Frame Number: 007122/0099

ASSIGNEE-AT-ISSUE: The United States of America as represented by the Secretary of the Army, Washington, District of Columbia, United States (US), United States government (68)

LEGAL-REP: Bellamy, Werten F. W.

Lexis lists litigation at the top of its patents: No litigation listed.

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Title

Patent Assignee :

Inventor(s) :

Patent Number(s) : 5693343

Priority Number(s) :

Application Number(s) :

Int'l. Classification code:

[Search](#)

European Classification Code:

[Search](#)

US Classification Code:

[Search](#)

Publication Date

From January

Earliest

To January

Latest

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\*\* SS 1: Results 1

Query/Command : PRT SS 1 MAX 1 LEGALALL

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**Patent Number :**

US5693343 A 19971202 [US5693343]

**Title :**

(A) Microparticle carriers of maximal uptake capacity by both M cells  
and non-M cells

**Patent Assignee :**

(A) US ARMY (US)

**Patent Assignee :**

The United States of America as represented by the Secretary of the  
Army, Washington DC [US]

**Inventor(s) :**

(A) REID ROBERT H (US); VAN HAMONT JOHN E (US); BROWN WILLIAM R (US);  
BOEDEKER EGAR C (US); THIES CURT (US)

**Application Nbr :**

US24296094 19940516 [1994US-0242960]

1 / 1 LGST - ©EPO

**Patent Number :**

US5693343 A 19971202 [US5693343] (A) Patent

**Application Number :**

US24296094 19940516 [1994US-0242960]

**Publication actions :**

19940516 US-API [POS; EXM]

FILING DETAILS

US24296094 19940516 [1994US-0242960]

19971202 US-A [POS; EXM]

Patent

US5693343 A 19971202 [US5693343]

**Action Taken :**

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: UNITED STATES OF AMERICA, THE, AS REPRESENTED BY T; EFFECTIVE

DATE: 19940728

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: REID, ROBERT H.; EFFECTIVE DATE: 19940728

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: VANHAMONT, JOHN; EFFECTIVE DATE: 19940808

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: BROWN, WILLIAM R.; EFFECTIVE DATE: 19940728

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: BOEDEKER, EDGAR C.; EFFECTIVE DATE: 19940728

19940901 US/AS02-A [NMC]  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: THI; EFFECTIVE DATE: 19940824

20000208 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 19991130

**Lasted Event Group :**

OPP  
Alive

**Update Code :**

2003-22

1 / 1 CRXX - @CLAIMS/RRX

**Patent Number :**

5,693,343 A 19971202 [US5693343]

**Patent Assignee :**

U S of America Army Secretary of

**Actions :**

19991130 REISSUE REQUESTED  
Issue Date of O.G.: 20000208  
Reissue Request Number: 09/451321  
Examination Group responsible for Reissue process: 1614

Query/Command : st